

# EGPRS 1900 Test Data

FCC ID: 2BLBN-SMART

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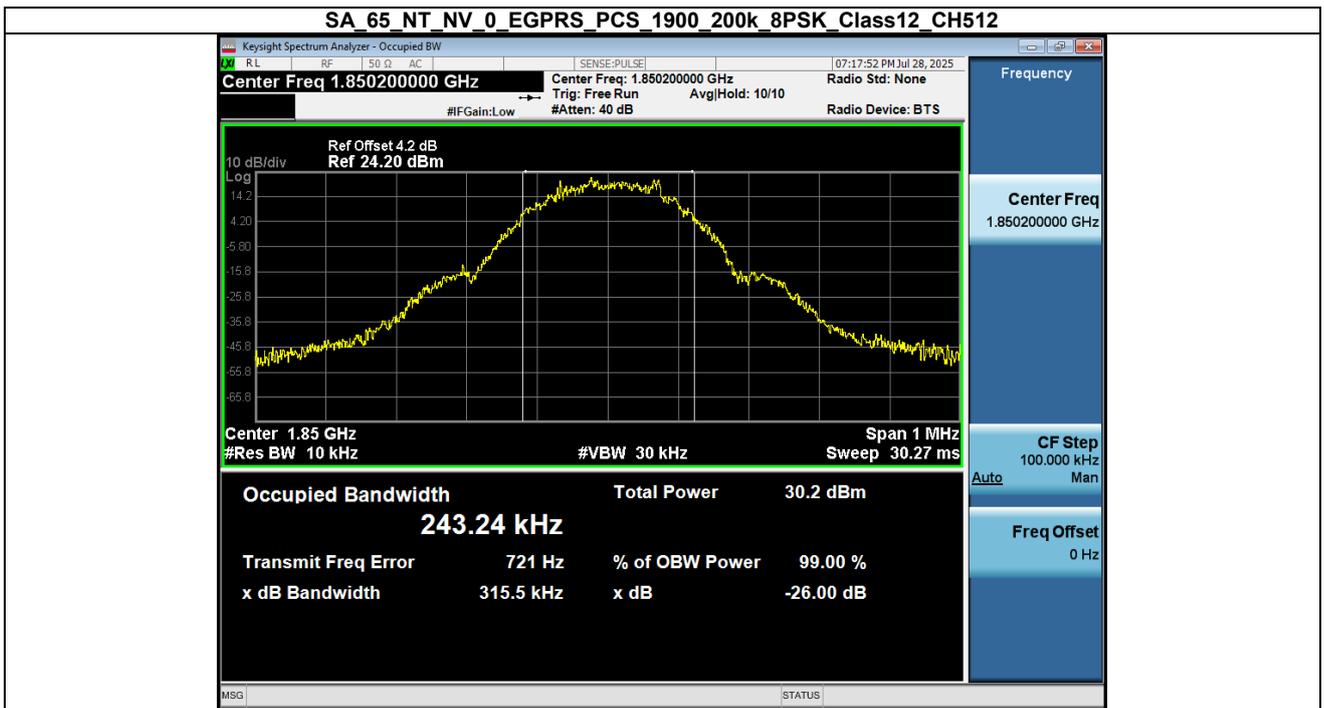
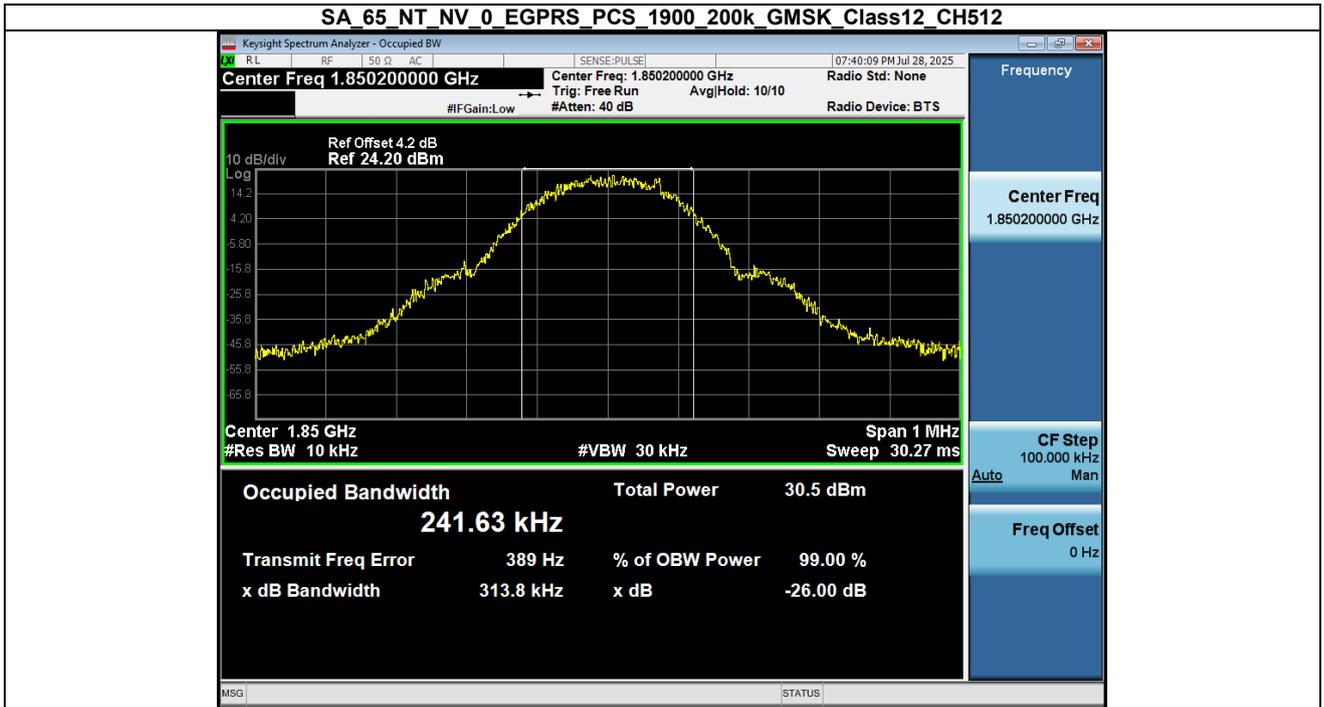
# 1. Conducted Output Power&&EIRP/ERP

Services	Band	Modulation	Class Type	Frequency (MHz)	Conducted Power(dBm)	ANT Gain(dBi)	EIRP(dBm)	limit(dBm)	Result
EGPRS	PCS 1900	GMSK	Class8	1850.2	29.05	1.73	30.78	33.01	Pass
EGPRS	PCS 1900	GMSK	Class10	1850.2	27.72	1.73	29.45	33.01	Pass
EGPRS	PCS 1900	GMSK	Class11	1850.2	<b>29.42</b>	1.73	31.15	33.01	Pass
EGPRS	PCS 1900	GMSK	Class12	1850.2	29.06	1.73	30.79	33.01	Pass
EGPRS	PCS 1900	8PSK	Class8	1850.2	28.46	1.73	30.19	33.01	Pass
EGPRS	PCS 1900	8PSK	Class10	1850.2	27.67	1.73	29.40	33.01	Pass
EGPRS	PCS 1900	8PSK	Class11	1850.2	29.00	1.73	30.73	33.01	Pass
EGPRS	PCS 1900	8PSK	Class12	1850.2	28.40	1.73	30.13	33.01	Pass
EGPRS	PCS 1900	GMSK	Class8	1880.0	28.44	1.73	30.17	33.01	Pass
EGPRS	PCS 1900	GMSK	Class10	1880.0	28.61	1.73	30.34	33.01	Pass
EGPRS	PCS 1900	GMSK	Class11	1880.0	29.22	1.73	30.95	33.01	Pass
EGPRS	PCS 1900	GMSK	Class12	1880.0	29.41	1.73	31.14	33.01	Pass
EGPRS	PCS 1900	8PSK	Class8	1880.0	28.25	1.73	29.98	33.01	Pass
EGPRS	PCS 1900	8PSK	Class10	1880.0	28.50	1.73	30.23	33.01	Pass
EGPRS	PCS 1900	8PSK	Class11	1880.0	28.45	1.73	30.18	33.01	Pass
EGPRS	PCS 1900	8PSK	Class12	1880.0	28.23	1.73	29.96	33.01	Pass
EGPRS	PCS 1900	GMSK	Class8	1909.8	27.36	1.73	29.09	33.01	Pass
EGPRS	PCS 1900	GMSK	Class10	1909.8	28.68	1.73	30.41	33.01	Pass
EGPRS	PCS 1900	GMSK	Class11	1909.8	29.18	1.73	30.91	33.01	Pass
EGPRS	PCS 1900	GMSK	Class12	1909.8	28.42	1.73	30.15	33.01	Pass
EGPRS	PCS 1900	8PSK	Class8	1909.8	28.18	1.73	29.91	33.01	Pass
EGPRS	PCS 1900	8PSK	Class10	1909.8	27.83	1.73	29.56	33.01	Pass
EGPRS	PCS 1900	8PSK	Class11	1909.8	28.27	1.73	30.00	33.01	Pass
EGPRS	PCS 1900	8PSK	Class12	1909.8	27.32	1.73	29.05	33.01	Pass

EIRP = Conducted Power + ANT Gain

## 2. Occupied Bandwidth

Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	OBW(MHz)	26EBW(MHz)
NVNT	EGPRS	PCS 1900	GMSK	Class12	1850.2	0.2416	0.3138
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.2432	0.3155
NVNT	EGPRS	PCS 1900	GMSK	Class12	1880.0	0.2435	0.3179
NVNT	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.2463	0.3138
NVNT	EGPRS	PCS 1900	GMSK	Class12	1909.8	0.2429	0.3177
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.2459	0.3124



**SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_GMSK\_Class12\_CH661**



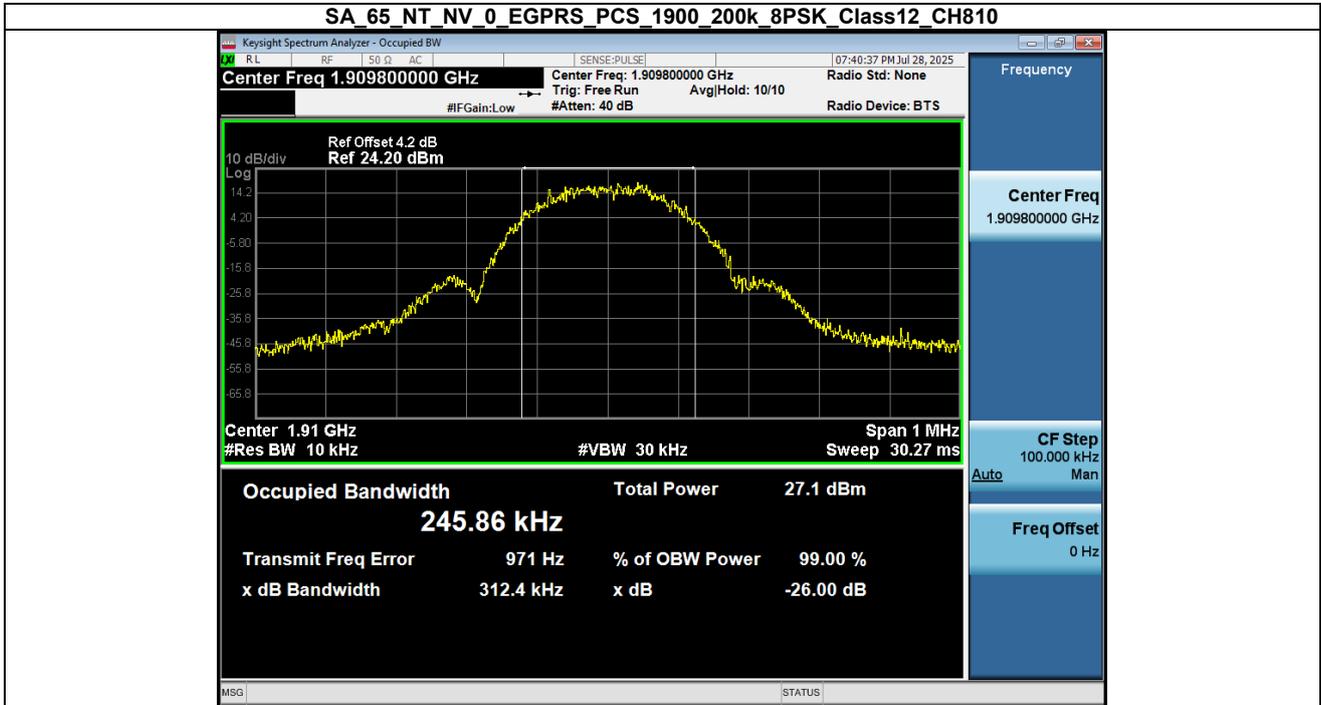
SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH661



SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_GMSK\_Class12\_CH810

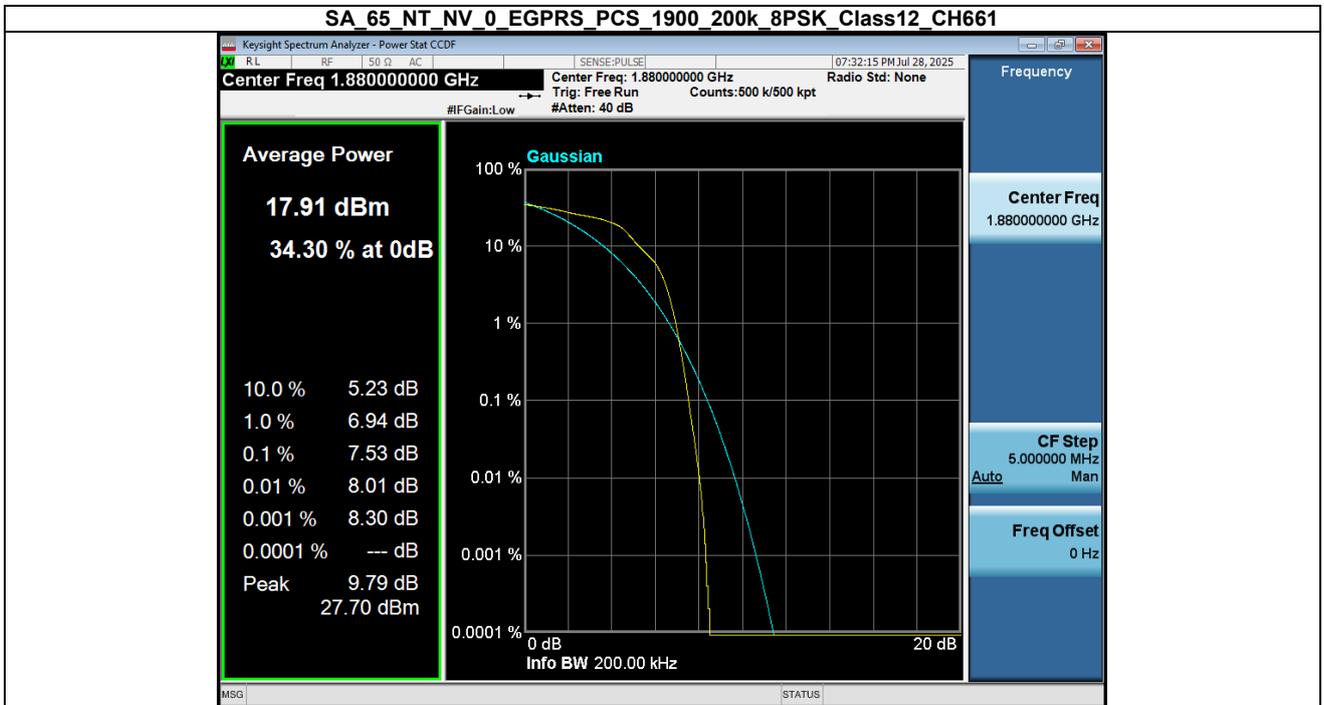
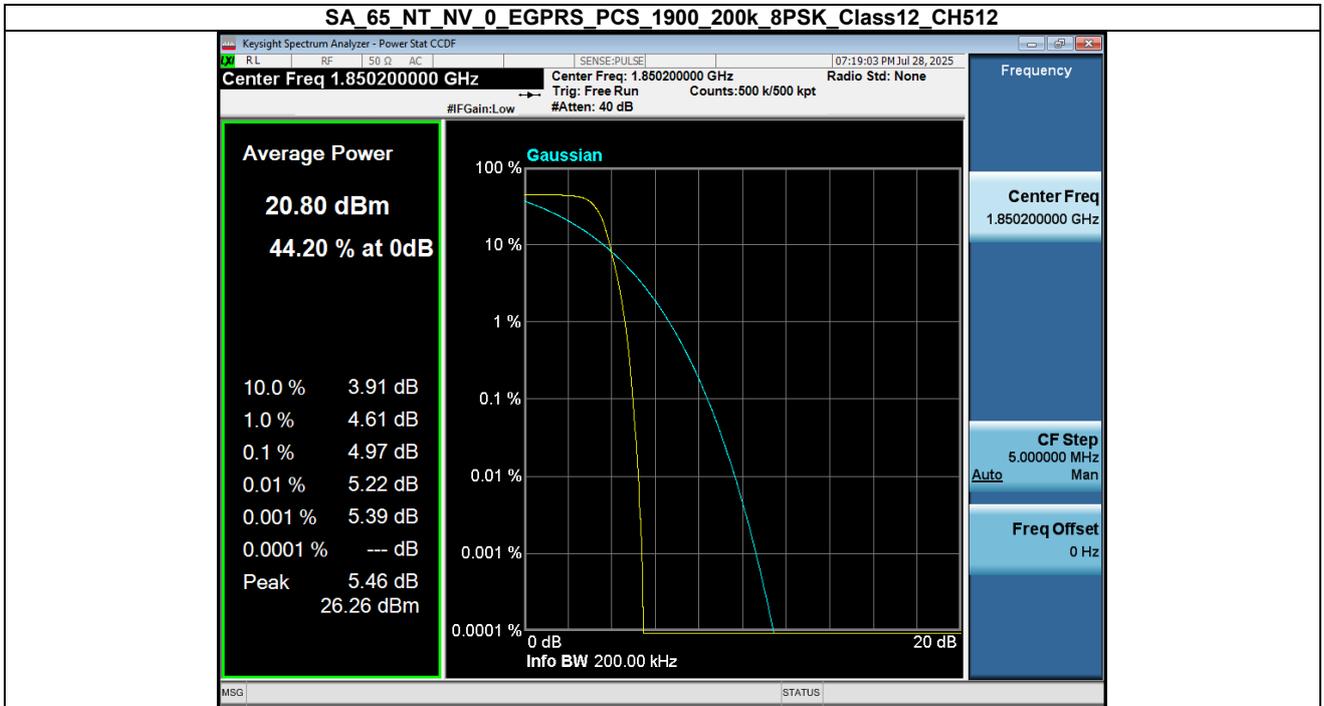


SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH810

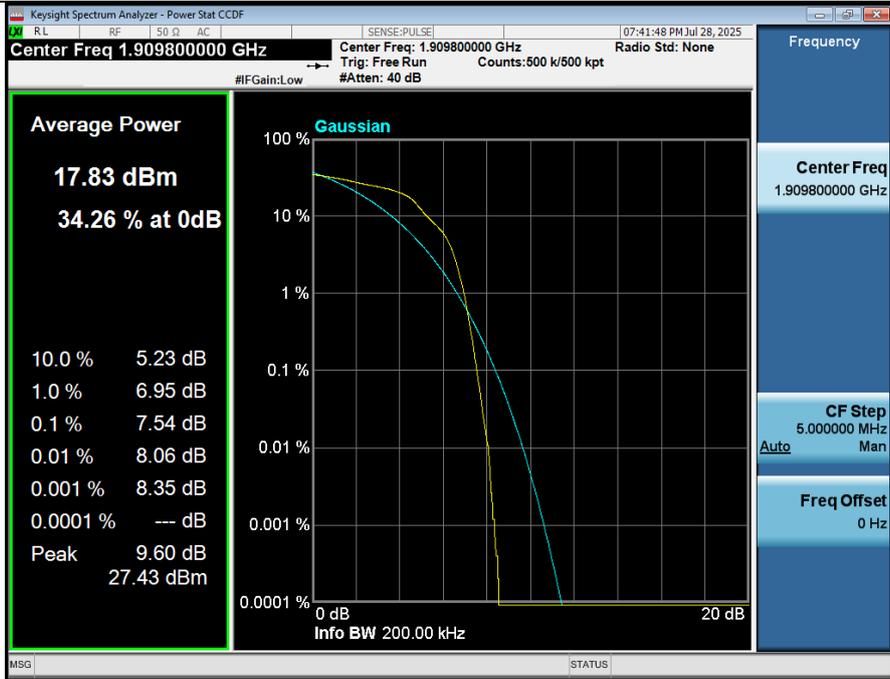


### 3. Peak to Average Ratio

Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.2	4.97	13.00	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1880.0	7.53	13.00	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.8	7.54	13.00	Pass



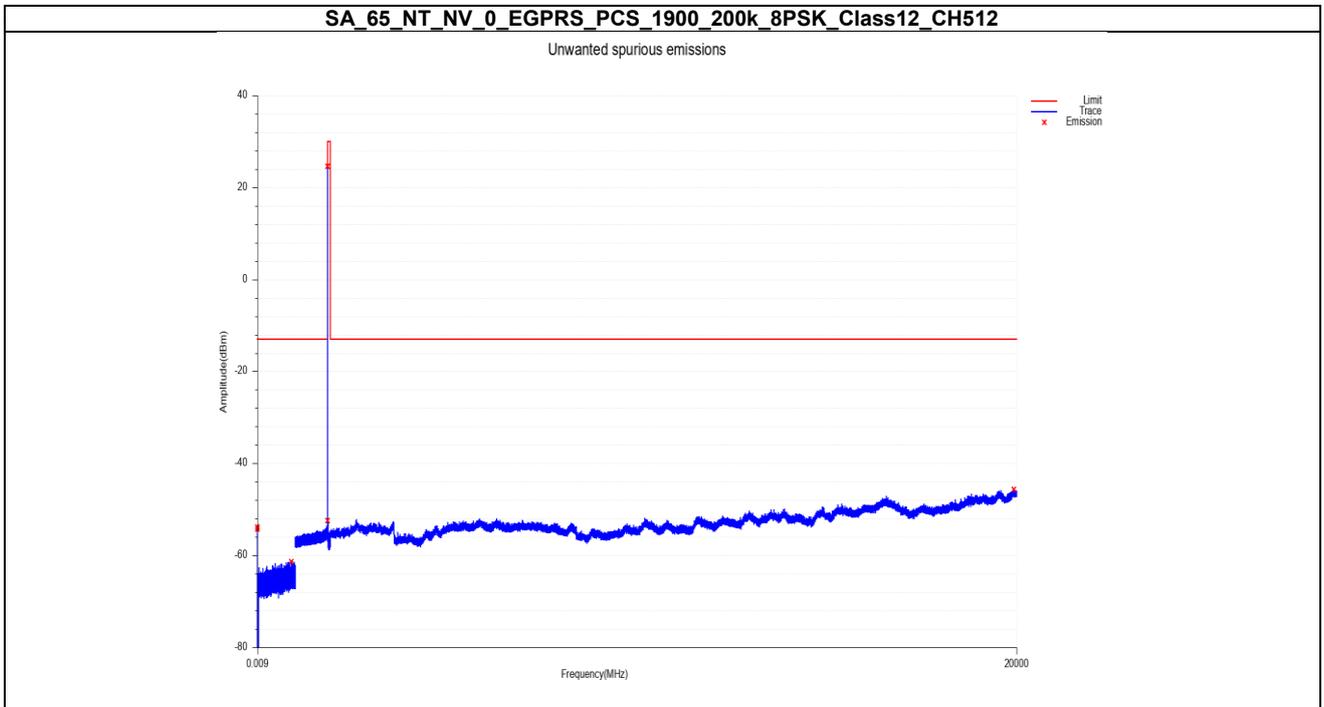
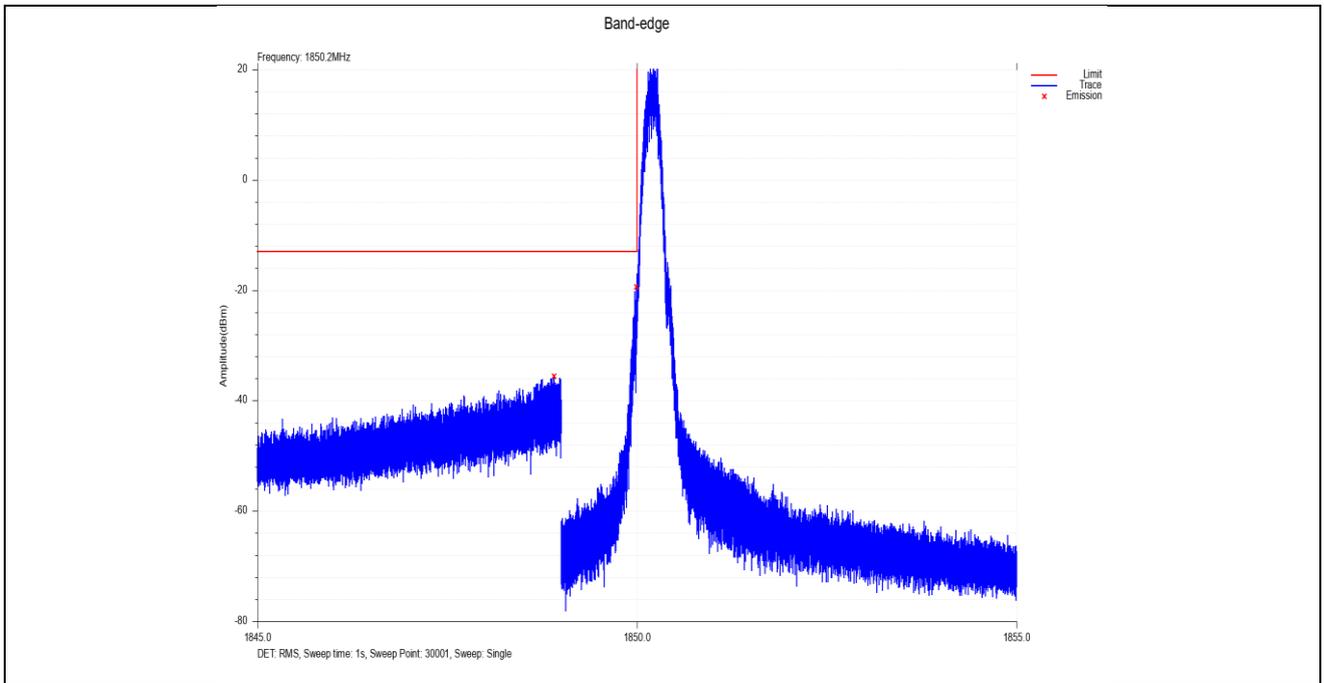
**SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH810**



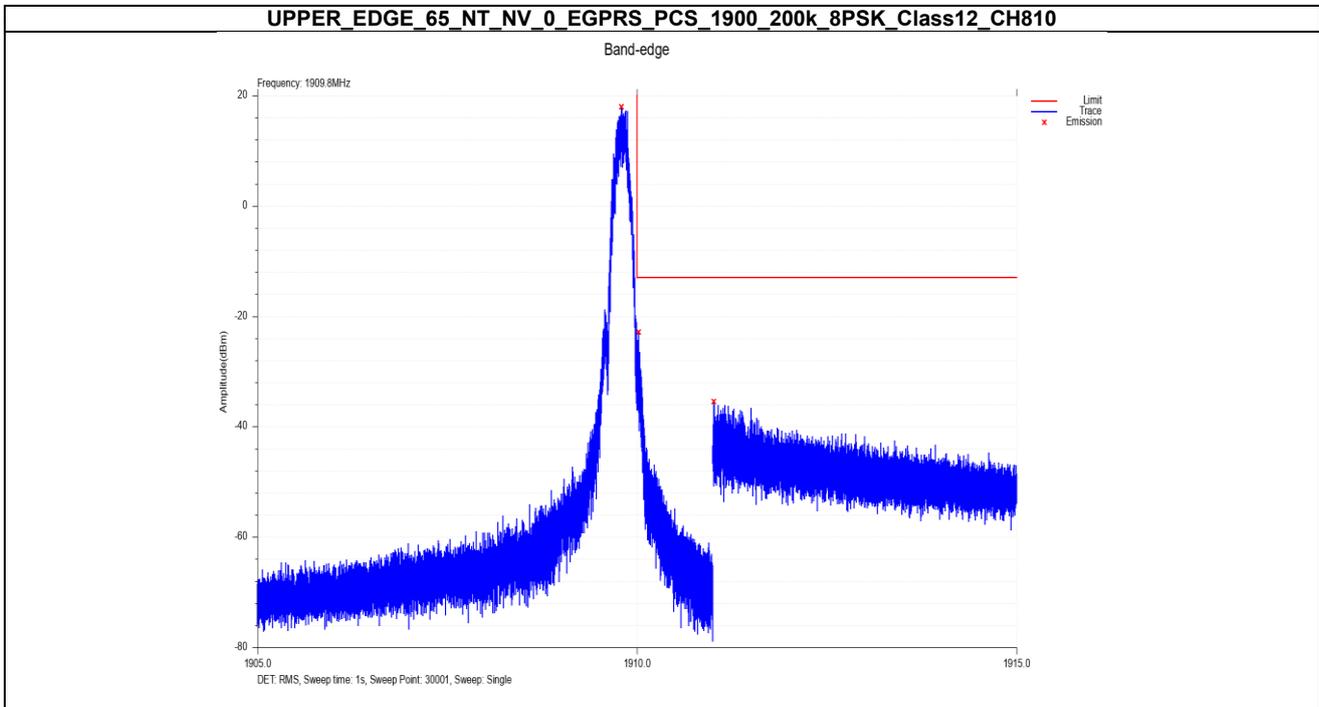
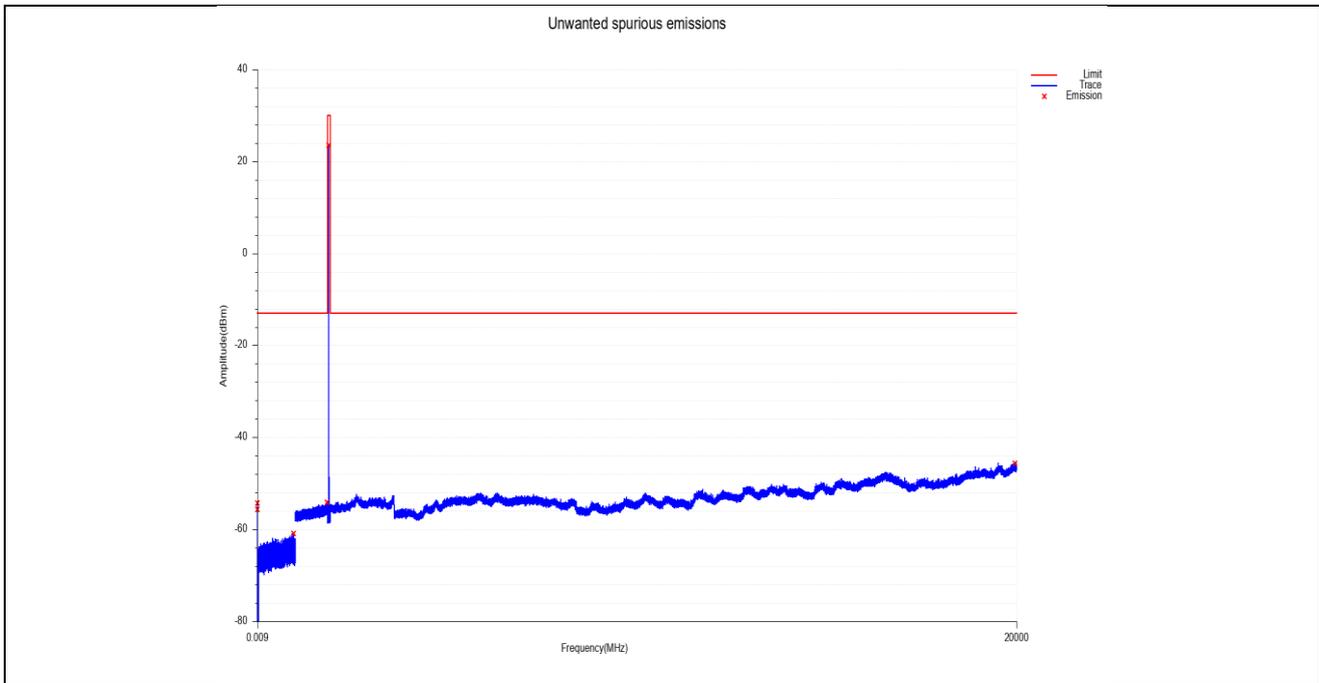
#### 4. Unwanted Spurious Emission

Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.20	1000	1845.0~1849.0	1848.909	-35.62	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.20	3	1849.0~1850.0	1849.996	-19.43	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.20	1	0.009~0.150	0.010	-53.77	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.20	10	0.150~30.000	0.200	-54.33	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.20	100	30.000~1000.000	888.903	-61.42	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.20	1000	1000.000~1845.000	1843.704	-52.45	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1850.20	1000	1915.000~20000.000	19930.674	-45.68	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1880.00	1	0.009~0.150	0.009	-54.21	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1880.00	10	0.150~30.000	0.152	-55.72	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1880.00	100	30.000~1000.000	958.937	-60.83	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1880.00	1000	1000.000~1845.000	1839.902	-54.09	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1880.00	1000	1915.000~20000.000	19957.199	-45.61	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.80	3	1910.0~1911.0	1910.024	-22.84	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.80	1000	1911.0~1915.0	1911.013	-35.42	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.80	1	0.009~0.150	0.010	-53.62	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.80	10	0.150~30.000	0.158	-53.58	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.80	100	30.000~1000.000	887.124	-61.05	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.80	1000	1000.000~1845.000	1799.370	-54.13	-13	Pass
NVNT	EGPRS	PCS 1900	8PSK	Class12	1909.80	1000	1915.000~20000.000	19922.837	-45.07	-13	Pass

LOW\_EDGE\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH512

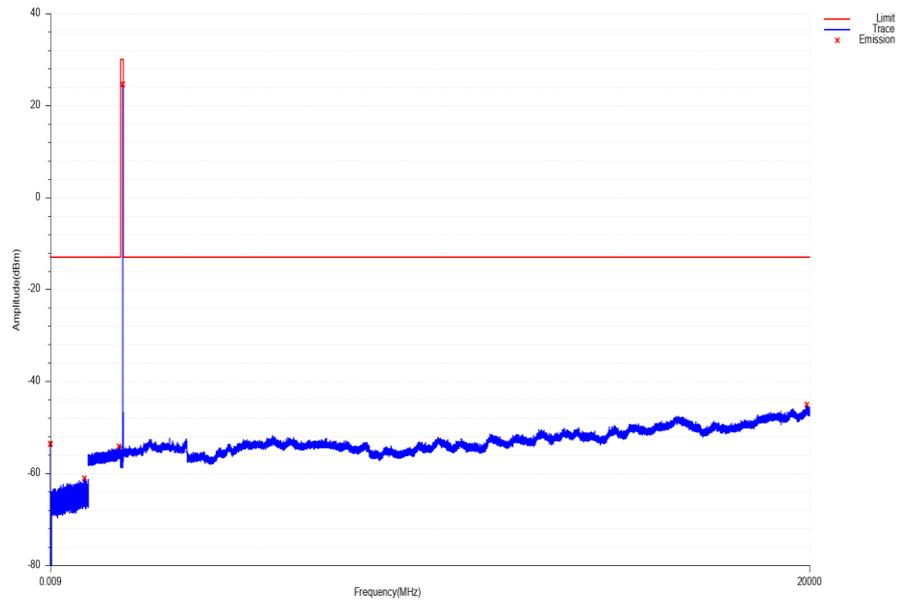


**SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH661**



**SA\_65\_NT\_NV\_0\_EGPRS\_PCS\_1900\_200k\_8PSK\_Class12\_CH810**

Unwanted spurious emissions



## 5. Frequency Stability

Temperature (C)	Voltage (V)	Services	Band	Modulation	Class Type	Frequency (MHz)	Frequency Stabilization (ppm)	Limit_Low (ppm)	Limit_Up (ppm)	Result
-30	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0025	-2.50	2.50	Pass
-30	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0013	-2.50	2.50	Pass
-30	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0037	-2.50	2.50	Pass
-30	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0062	-2.50	2.50	Pass
-30	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0041	-2.50	2.50	Pass
-30	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0078	-2.50	2.50	Pass
-30	4.24	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0036	-2.50	2.50	Pass
-30	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0024	-2.50	2.50	Pass
-30	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0033	-2.50	2.50	Pass
-20	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0026	-2.50	2.50	Pass
-20	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0010	-2.50	2.50	Pass
-20	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0060	-2.50	2.50	Pass
-20	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0042	-2.50	2.50	Pass
-20	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0044	-2.50	2.50	Pass
-20	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0027	-2.50	2.50	Pass
-20	4.24	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0005	-2.50	2.50	Pass
-20	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0054	-2.50	2.50	Pass
-20	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0051	-2.50	2.50	Pass
-10	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0053	-2.50	2.50	Pass
-10	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0021	-2.50	2.50	Pass
-10	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0071	-2.50	2.50	Pass
-10	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0017	-2.50	2.50	Pass
-10	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0014	-2.50	2.50	Pass
-10	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0030	-2.50	2.50	Pass
-10	4.24	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0025	-2.50	2.50	Pass
-10	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0059	-2.50	2.50	Pass
-10	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0040	-2.50	2.50	Pass
0	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0007	-2.50	2.50	Pass
0	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0039	-2.50	2.50	Pass
0	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0044	-2.50	2.50	Pass
0	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0014	-2.50	2.50	Pass
0	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0017	-2.50	2.50	Pass
0	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0067	-2.50	2.50	Pass
0	4.24	EGPRS	PCS	8PSK	Class12	1850.2	0.0042	-2.50	2.50	Pass

			1900							
0	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0029	-2.50	2.50	Pass
0	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0056	-2.50	2.50	Pass
10	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0026	-2.50	2.50	Pass
10	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0069	-2.50	2.50	Pass
10	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0043	-2.50	2.50	Pass
10	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0055	-2.50	2.50	Pass
10	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0042	-2.50	2.50	Pass
10	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0050	-2.50	2.50	Pass
10	4.24	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0018	-2.50	2.50	Pass
10	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0033	-2.50	2.50	Pass
10	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0064	-2.50	2.50	Pass
20	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0019	-2.50	2.50	Pass
20	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0058	-2.50	2.50	Pass
20	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0049	-2.50	2.50	Pass
20	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0019	-2.50	2.50	Pass
20	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0051	-2.50	2.50	Pass
20	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0043	-2.50	2.50	Pass
20	4.24	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0048	-2.50	2.50	Pass
20	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0003	-2.50	2.50	Pass
20	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0032	-2.50	2.50	Pass
30	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0017	-2.50	2.50	Pass
30	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0068	-2.50	2.50	Pass
30	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0059	-2.50	2.50	Pass
30	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0037	-2.50	2.50	Pass
30	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0071	-2.50	2.50	Pass
30	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0031	-2.50	2.50	Pass
30	4.24	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0037	-2.50	2.50	Pass
30	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0078	-2.50	2.50	Pass
30	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0044	-2.50	2.50	Pass
40	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0071	-2.50	2.50	Pass
40	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0018	-2.50	2.50	Pass
40	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0032	-2.50	2.50	Pass
40	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0035	-2.50	2.50	Pass
40	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0041	-2.50	2.50	Pass
40	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0038	-2.50	2.50	Pass
40	4.24	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0022	-2.50	2.50	Pass
40	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0040	-2.50	2.50	Pass
40	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0033	-2.50	2.50	Pass

50	3.47	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0026	-2.50	2.50	Pass
50	3.47	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0017	-2.50	2.50	Pass
50	3.47	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0028	-2.50	2.50	Pass
50	3.85	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0023	-2.50	2.50	Pass
50	3.85	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0034	-2.50	2.50	Pass
50	3.85	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0066	-2.50	2.50	Pass
50	4.24	EGPRS	PCS 1900	8PSK	Class12	1850.2	0.0001	-2.50	2.50	Pass
50	4.24	EGPRS	PCS 1900	8PSK	Class12	1880.0	0.0023	-2.50	2.50	Pass
50	4.24	EGPRS	PCS 1900	8PSK	Class12	1909.8	0.0035	-2.50	2.50	Pass